SERVICE MANUAL

STEREO TURNTABLE





SPECIFICATIONS

Drive system
Speeds

Motor

Wow & flutter Signal to noise ratio Turntable platter

Tone arm

Tracking error Cartridge

DC motor

33-1/3 and 45 rpm

±1.5°

Magnetic stereo cartridge:

(MG-10J)

Stylus

Belt drive

0.05% WRMS

Better than 60 dB 11-1/2" (29.2 cm) Static-balance type

0.5 mil diamond stylus: (ST-10J)

Stylus pressure Frequency response

Overhang

Channel separation Power source

Power consumption

Dimensions

Weight

1.5 - 2.5 g.

20 - 20,000 Hz 15 mm

Better than 25 dB

AC: 220V, 50Hz

Approx. $17-1/2''(W) \times 5-5/8''(H)$

x 14-1/4"(D)

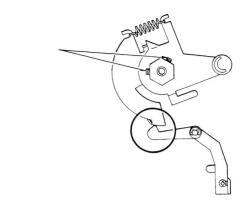
 $(440 \times 140 \times 360 \text{ mm})$ Approx. 9 lbs. 1 oz. (4.1 kg)

^{*} Specifications and design are subject to change without notice.

ADJUSTMENT OF TONEARM LEVER

Set the turntable unit upside down after putting the tonearm on the arm rest and securing it.

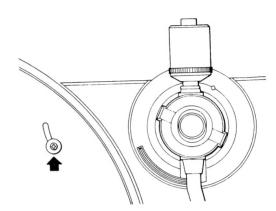
Then, loosen the set screw (w/hex hole) and position the lever (M18) in such a way that the protrusion of the microswitch contacts the foremost end of the lever.



ADJUSTMENT OF MICRO-SWITCH

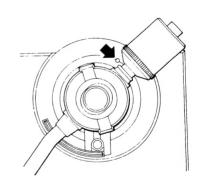
Set the turntable unit back in its normal position (the turntable platter at the top). Loosen the round hend screw (Y7) (see illustration) with a screwdriver and adjust the microswitch position so that the micro-switch will be turned on when the tonearm has moved a little toward the turntable center.

The micro-switch should be correctly positioned at a place where it provides a rotational start for the turntable when the tonearm head centers an area 35 through 38cm away from the center.



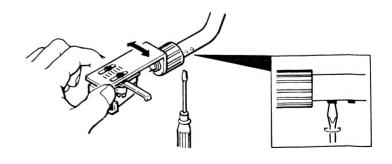
ADJUSTMENT OF AUTO-RETURN

There is a shaft which is accessible with an long shaft screwdriver through the hole below the tonearm. (See illustration at right.) When the stylus has reached a point approximately 55mm from the turntable center turn the shaft clockwise or counter-clockwise and select a position where it actuates the auto-return.



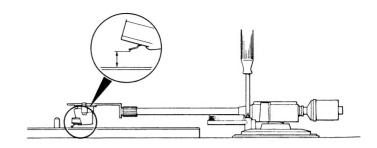
ADJUSTMENT OF HEADSHELL

The headshell attached to the tonearm should not be inclined either to the right or to the left. If necessary, loosen the two screws on the bottom of the tubular arm and adjust the headshell. Be sure that the stylus is normal to the record surface.



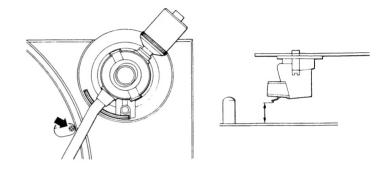
ADJUSTMENT OF TONEARM LIFTER

Set the cuing lever to UP and the distance between the stylus and the record to about 9mm by adjusting the arm lifter screw.



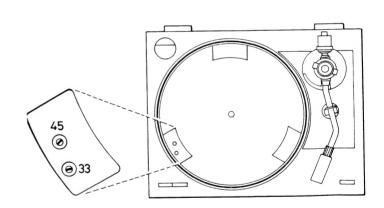
ADJUSTMENT OF LIFT-UP LEVER SPRING

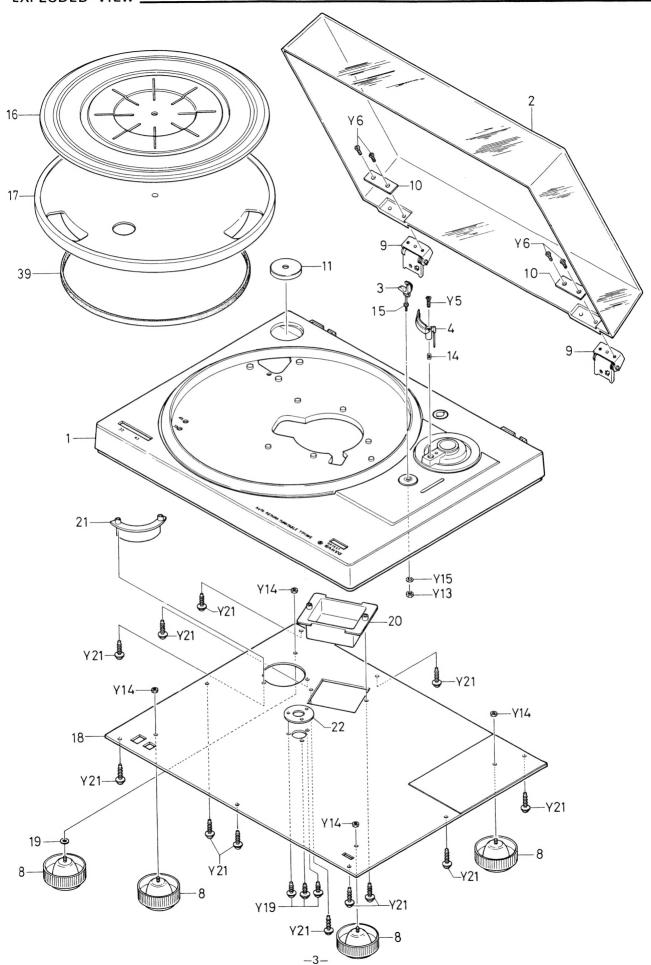
Switch off power when the auto-return has worked and adjust spring tension to provide a clearance of 11mm between the stylus and the record.



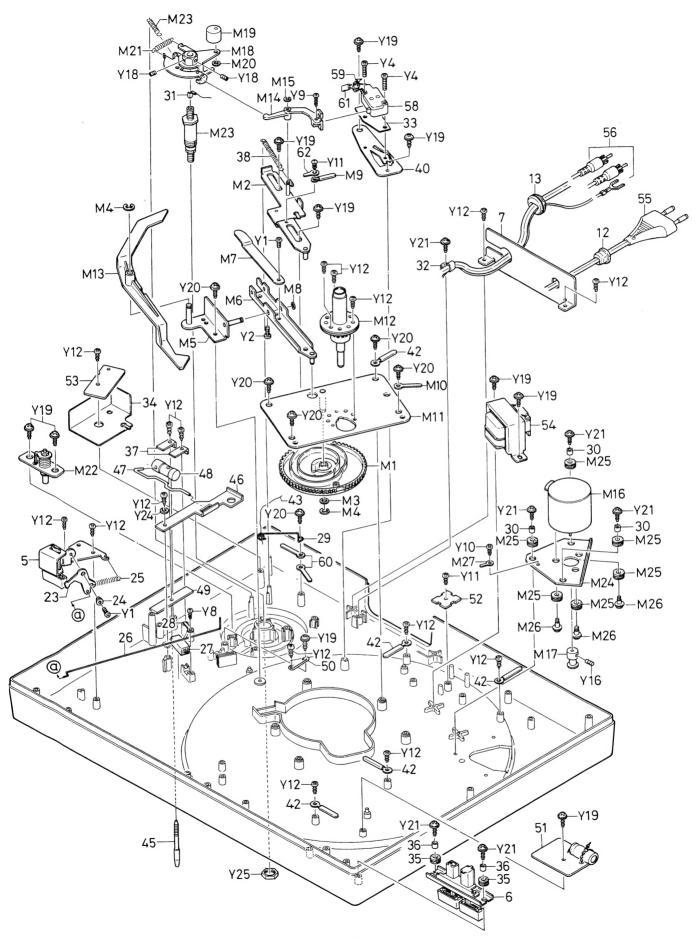
ADJUSTMENT OF TURNTABLE SPEED

Set the fine speed control dials to their center positions (each has three protrusions, of which only one can be set to the center). Make adjustment by inserting a screwdriver into the holes. When properly adjusted, the zebra stroboscope marks on the turntable platter seem to be stationary at the selected speed.



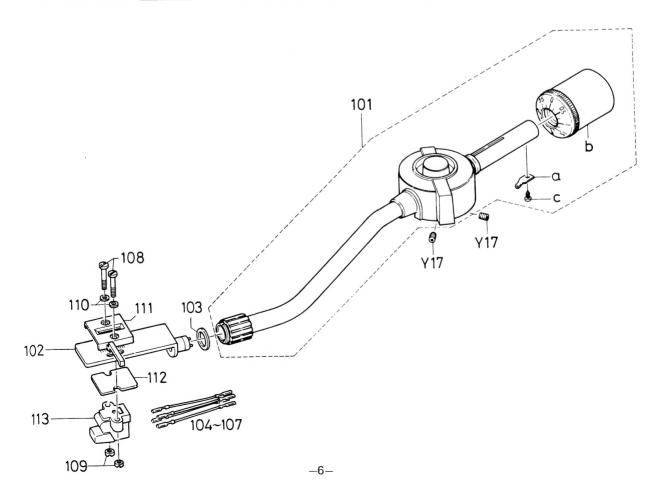


Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty	
PACKING				ELECTRICAL PARTS & ARM (JPU1005UM)				
	141-6-132T-97210 141-6-144T-49600 141-6-316T-79800 141-2-337T-10400 141-6-410T-22201 141-6-231T-60700 141-6-231T-35400 141-6-231T-10200 141-6-231T-10200 141-6-316T-80100 141-6-317T-07500 141-6-317T-07700 141-6-317T-07700 141-6-316T-88500 123-6-453R-00100	Individual Carton Styrol Filler, Set Pad, Top Ribbon, Arm Fixer Instruction Manual Inner Polyethylene Bag, Set Inner Polyethylene Bag, Inst. Manual Inner Polyethylene Bag, Cord Inner Polyethylene Bag, Cord Inner Polyethylene Bag, Accessories Pad, Side Set Pad, Turn Table Pad, Sheet Pad, Dust Cover Pad, Dust Cover Inspection sheet	1 2 1 1 1 1 1 1 2 2 2 1 1 1 1 1 2 2 2 2	51 SVR1 SVR2 D1 D2 C2 52 53 54 55 56 58 59 60 61(C1) 62	141-4-230T-84800 141-2-464T-08700 4-237T-00100 4-222T-39576 141-0-230T-44200 4-230T-19400 4-251T-92000 4-243T-77172 4-243T-15171 4-231T-61900 141-2-464T-08700 123-2-472R-00600	Printed Circuit Board Assembly, POWER -Fixer -Terminal, Wrapper Pin -Semi Fixed Resistor 50kB -Semi Fixed Resistor 20kB -Diode DS18 -Diode DS17 -Electrolytic 1000µF +100 —10% 16WV Printed Circuit Board Assembly, AC Relay Printed Circuit Board, Output Relay Power Transformer, 110/220V 50Hz Power Supply Cord Lead Cord, Output Cord DIN type Switch, Micro Fixer, Mylar (61) Mtg. Lug, Earth Mylar Capacitor 0.047µF ±20% 50WV Lug, Earth	1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
CA	BINET			ARI	M (JPU1005UM)			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 34 43 35 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	141-0-121T-14606 141-0-194T-00700 141-0-873T-00204 141-0-872T-00201 141-0-365T-38402 141-0-365T-38402 141-0-365T-42102 141-0-365T-42102 141-0-365T-42102 141-0-365T-42102 141-2-251T-06102 141-2-2551T-06102 141-2-352T-19900 141-2-352T-19900 141-2-464T-11800 141-2-464T-11800 141-2-463T-32401 141-2-246T-23000 141-2-126T-27900 141-2-126T-27900 141-2-352T-25300 141-2-135T-48501 141-2-126T-27900 141-2-352T-25300 141-2-352T-25300 141-2-352T-25300 141-2-852T-45600 141-2-464T-30800 141-2-461T-30800 141-2-461T-30800 141-2-461T-30800 141-2-352T-248900 141-2-352T-25200	Ring, Reject Coil Spring, Reject Wire Spring, Reject Cushion, Wire Spring (26) Lug, Wire Spring (26) Wire Spring, Earth Pipe, Cushion Lug, Arm Shaft Mtg. Fixer, Output Cord Spacer, Micro Switch Mtg. Shield Plate, Output P.C.B Rubber Cushion, Bracket Switch Pipe, Bracket Switch Plate Spring Coil Spring, pull the Mechanism Slide Flat Belt, Turn Table Drive Bracket Mounting, Switch Lug, Lead Retainer Rope 0.5\$\phi\$ x 50mm Lever Assembly, Lift up lever Plate Spring Lever Shaft Veil	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101 a b c 102 103 104 105 106 107 108 109 110 113	141-0-743T-05906 141-2-853T-53901 141-0-687T-01400 141-0-286T-01000 141-2-445T-20300 4-243T-15870 4-243T-15873 141-2-421T-23700 141-2-453T-32200 4-157T-00801 4-156T-00500 141-2-742T-13100 141-2-687T-01600	Lapping Screw 2 x 4mm, Plate Spring Mtg. Head Shell Assembly Rubber Cushion Lead Cord, LH Lead Cord, LE Lead Cord, RH Lead Cord, RE Special Screw Stud Nut Washer, Nylon Cartridge Assembly Stylus	1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1	



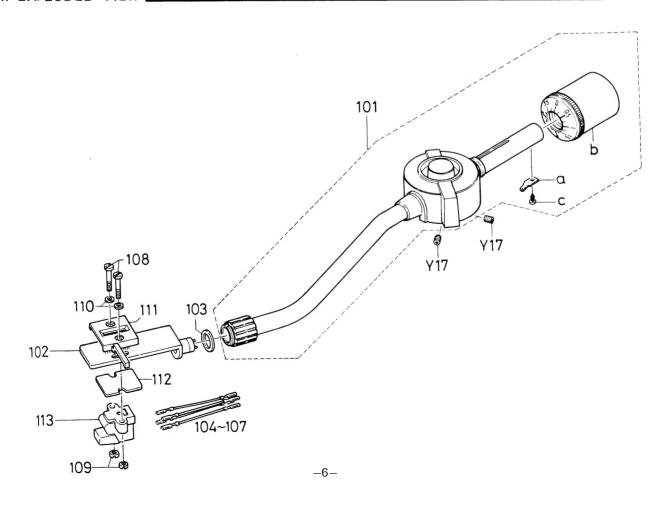
Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ME	CHANISM (PM10	05UM)		SCRE	EW MOUTING		
M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16 M17 M18 M19 M20 M21 M22 M22 M23 M24 M25 M26	141-0-581T-08900 141-0-731T-65100 141-2-453T-30701 141-2-457T-23200 141-0-741T-17500 141-0-741T-20700 141-2-853T-51100 141-2-457T-23100 141-2-457T-23100 141-2-457T-23100 141-0-751T-02800 141-2-742T-06700 141-2-742T-23000 141-2-742T-23000 141-2-742T-23000 141-2-742T-254000 141-2-742T-254000 141-2-742T-254000 141-2-753T-526000 141-2-753T-526000 141-2-753T-096010 141-2-753T-096010000000000000000000000000000000000	Gear Assembly, Main Gear Slide Assembly, Main Slide Washer, GNW5.2 x 8 x 0.25mm Special Washer, "E" Ring 4mm Bracket Lever Assembly, Life Up Lever Mtg. Lever Assembly, Lift Up Lever Plate Spring, Lift Up Special Washer, "E" Ring 3mm Lug, Earth Lug, Earth Bracket Mounting Assembly Shaft Assembly, Turn Table Lever, Trip Lever, Switch Operation Special Washer, Lever (M14) Mtg. "E" Ring 2mm DC Motor Pulley, Motor Mtg. Lèver Assembly, Arm Lever Shaft, AUTO RETURN ADJUST Special Washer, Shaft (M19) Mtg. Coil Spring, Arm Lever Restore Bracket Bearing Assembly, Lift Up Bearing Assembly, Arm Stand Bracket, Motor Mtg. Special Screw, Motor Mtg.	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y1 Y2 Y3 Y4 Y5 Y6 Y8 Y9 Y10 Y11 Y12 Y13 Y14 Y15 Y16 Y17 Y18 Y19 Y20 Y21 Y22 Y24 Y25		Screw, Pan Head 3 × 6mm Screw, Pan Head 3 × 8mm Screw, Pan Head 3 × 10mm Screw, Pan Head 3 × 10mm Screw, Flat Head 3 × 10mm Screw, Flat Head 3 × 10mm Screw, Binding Head 4 × 12mm Screw, Tapping 2.6 × 6mm Screw, Tapping 3 × 12mm Screw, Tapping 3 × 8mm Screw, Tapping 3 × 8mm Nut, Hexagon 2.6mm Nut, Hexagon 2.6mm Screw, Headless 3 × 4mm Screw, Headless 3 × 4mm Screw, Headless 3 × 4mm Screw, Headless 4 × 4mm Screw, Headless with Hexagon Hole 3 × 4mm Screw, Tapping with Washer 3 × 8mm Screw, Tapping with Washer 3 × 10mm Screw, Tapping with Washer 3 × 12mm Washer, 3 × 10 × 0.5mm Washer, 3 × 8 × 0.5mm Hexagon Nut, 12φ × 0.75mm	2 1 2 2 1 4 1 1 1 1 2 16 1 7 1 1 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1
M27	141-2-453T-01700 ⁷ 123-2-472R-00401	Washer, GNW 3 x 10 x 1mm Pan Head Screw 2.6 x 8mm Lug, Earth	3 1				

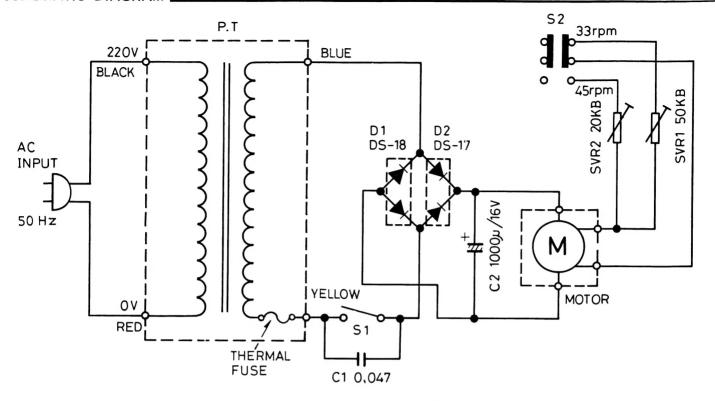
ARM EXPLODED VIEW _____



Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
МЕ	CHANISM (PM10	05UM)		SCRE	EW MOUTING		
M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16 M17 M18 M20 M20 M21 M22 M23 M24 M25 M26	141-0-581T-08900 141-0-731T-65100 141-2-453T-30701 141-2-457T-23200 141-0-747T-17500 141-0-741T-20700 141-2-853T-51100 141-2-457T-23100 141-2-472T-01001 123-2-472R-00600 141-0-751T-02800 141-0-751T-02800 141-2-742T-23000 141-2-742T-23000 141-2-742T-23000 141-2-753T-52600 141-2-651T-73500 141-2-851T-73500 141-2-857T-06100 141-0-577T-06100 141-0-577T-06100 141-2-421T-27300 00 (141-2-421T-27300 00 (141-2-421T-27300 01 (141-2-462T-30800 141-2-453T-01700)	Gear Assembly, Main Gear Slide Assembly, Main Slide Washer, GNW5.2 x 8 x 0.25mm Special Washer, "E" Ring 4mm Bracket Lever Assembly, Life Up Lever Mtg. Lever Assembly, Lift Up Lever Plate Spring, Lift Up Special Washer, "E" Ring 3mm Lug, Earth Lug, Earth Bracket Mounting Assembly Shaft Assembly, Turn Table Lever, Trip Lever, Switch Operation Special Washer, Lever (M14) Mtg. "E" Ring 2mm DC Motor Pulley, Motor Mtg. Lever Assembly, Arm Lever Shaft, AUTO RETURN ADJUST Special Washer, Shaft (M19) Mtg. Coil Spring, Arm Lever Restore Bracket Bearing Assembly, Lift Up Bearing Assembly, Arm Stand Bracket, Motor Mtg. Cushion, Motor Mtg. Special Screw, Motor Mtg. Pipe Washer, GNW 3 x 10 x 1mm Pan Head Screw 2.6 x 8mm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y1 Y2 Y3 Y4 Y5 Y6 Y8 Y9 Y10 Y11 Y12 Y13 Y14 Y15 Y16 Y17 Y18 Y19 Y20 Y21 Y22 Y24 Y25		Screw, Pan Head 3 x 6mm Screw, Pan Head 3 x 8mm Screw, Pan Head 3 x 10mm Screw, Pan Head 3 x 10mm Screw, Flat Head 3 x 10mm Screw, Binding Head 4 x 12mm Screw, Tapping 2.6 x 6mm Screw, Tapping 3 x 12mm Screw, Tapping 3 x 4mm Screw, Tapping 3 x 6mm Screw, Tapping 3 x 6mm Screw, Tapping 3 x 8mm Nut, Hexagon 3mm Washer, Spring 2.6mm Screw, Headless 3 x 4mm Screw, Headless 3 x 4mm Screw, Headless with Hexagon Hole 3 x 4mm Screw, Tapping with Washer 3 x 8mm Screw, Tapping with Washer 3 x 10mm Screw, Tapping with Washer 3 x 10mm Screw, Tapping with Washer 3 x 12mm Washer, 3 x 10 x 0.5mm Washer, 3 x 8 x 0.5mm Hexagon Nut, 12\$\phi\$ x 0.75mm	2 1 2 2 1 4 1 1 1 2 16 1 1 7 1 1 2 2 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1
M27	123-2-472R-00401	Lug, Earth	1				

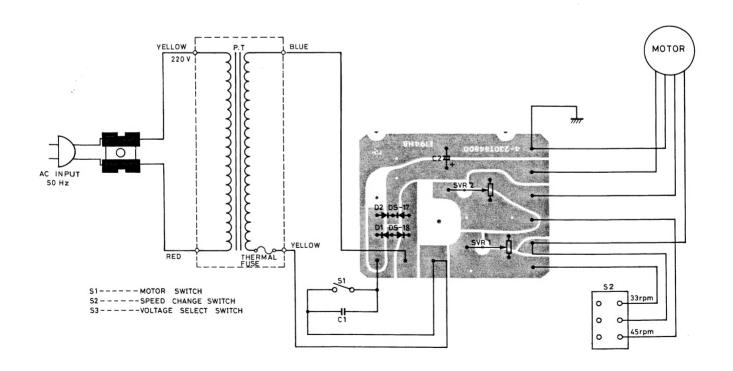
ARM EXPLODED VIEW _____





- S1 MOTOR SWITCH
- S2 SPEED CHANGE SWITCH

WIRING DIAGRAM.



SANYO ELECTRIC TRADING CO., LTD. 33, Hiyoshi-cho 2-chome, Moriguchi-shi, Osaka-fu, 570 Japan